

NAVISTAR, INC.		
TMS (TRUCK MATERIAL SPECIFICATION)		NUMBER: TMS-9525
TITLE Vent Window Leakage Test		CURRENT REV No.: 0912 DATE: December 2009
WRITTEN/EDITED BY: Materials Engineering	APPROVED BY: Materials Engineering	SUPERSEDES: Rev. B-1, August 2001
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<i>This specification may involve hazardous materials, equipment, and procedures. This specification does not purport to address all of the safety issues associated with its use. The user is responsible to consult appropriate safety and health practices and to determine the applicability of regulatory limits prior to use.</i>		
Change Notice: Replaced "International Truck and Engine Corporation" with "Navistar, Inc." per corporate directive; added CEMS B-50 requirement; editorial changes.		
Reference: File 50-7	Keywords: Vent Window Leakage	

1.0 APPLICATION

This specification covers the inspection of vent window assemblies for water leakage.

2.0 SCOPE

This specification covers the test method and requirements.

2.1 Restricted Chemical Substances

Effective January 1, 2007, all product supplied to the requirements of this specification must comply with the requirements of the CEMS B-50 specification.

3.0 REFERENCE DOCUMENTS [NOT APPLICABLE]

4.0 REQUIREMENTS

No evidence of leakage shall be allowed at 138 kPa (20 psi) test pressure and maximum allowable leakage at 275 kPa (40 psi) test shall be six (6) drops per minute per target area.

4.1 Method Of Test

4.1.1 Apparatus Spraying Systems Company Nozzle #1/2 GG3030.

4.1.2 Test Specimen

The test shall be conducted on a completed body assembly or simulated test stand consisting of a window and frame assembly mounted in the door.

4.1.3 Procedure

4.1.3.1 Open, close and fully latch the vent window assembly.

4.1.3.2 Locate the nozzle as indicated in Figure 1.

4.1.3.3 Direct the nozzle (water spray) for three (3) minutes at each of five targets shown in Figure 2, using 138 kPa (20 ± 2 psi) water pressure, and observe window assembly for leakage.

4.1.3.4 If no evidence of leakage is noted, repeat the above test using 275 kPa (40 ± 2 psi) water pressure, for three (3) minutes at each target, observing window for leakage at each location.

4.1.3.5 Record any leakage noted, in drops, for each three minute test.

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5.0 QUALITY

All product supplied shall be clean and free from dirt, oils, sharp edges, or defects harmful to product performance.

6.0 SOURCE APPROVAL AND QUALITY CONTROL

6.1 Supplier Requirements

All suppliers to Navistar are required to be registered to ISO 9001 Quality System Requirements. Navistar will also accept TS-16949 registration as long as the supplier can also fulfill all AIAG PPAP (Production Part Approval Process) documentation and approval requirements. Suppliers must maintain their certification with an accredited registrar and must furnish copies of registration certificates to their Navistar Corporate Buyer upon request.

6.2 Approval

Parts supplied against contracts or purchase orders citing this specification shall be equivalent in all respects to those samples which were approved by the purchaser. No changes in formulation or processing practices are permitted without approval. In the event that changes in material, properties, processing practices, construction, color, or labeling of the product are required, the supplier shall notify Materials Engineering, Truck Development and Technology Center, and Navistar Purchasing and Supplier Development of the proposed change(s). Test data indicating conformance to all requirements of this specification, test samples, and new or amended or updated Material Safety Data Sheet(s) (MSDS), in accordance with CFR Title 29, Part 1910 shall be submitted with the request for change.

6.3 Process Control

The supplier shall either perform and/or report results of tests on specific lots of parts produced using ISO 9001 or TS-16949 guidelines, or provide statistical evidence of the lot having been produced in a state of statistical control and with a process capable of providing all required properties. The part supplier and the plant metallurgist and/or the quality control manager of the using Navistar plant may determine testing and reporting requirements on specific products.

7.0 TECHNICAL INFORMATION

For further information related to the technical content of this specification, contact:	Suppliers may purchase controlled copies of this specification by contacting:
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